

Contract No. R003-009
“Fischer-Tropsch Fuels Development”

Submitted by Energy & Environmental Research Center
Principal Investigator: Bruce C. Folkedahl

PARTICIPANTS

Sponsor	Cost Share
Energy & Environmental Research Center Utilizing U.S. Department of Energy National Energy Technology Laboratory funding	\$710,786
North Dakota Industrial Commission	<u>\$189,034</u>
Total Project Cost	\$899,820

Project Schedule – 12 months	Project Deliverables:
Contract Date – October 22, 2008	Status Report: December 31, 2008
Start Date – October 1, 2008	Status Report: March 31, 2009
Completion Date – September 30, 2009	Status Report – June 30, 2009
	Final Report– September 30, 2009

OBJECTIVE/STATEMENT OF WORK:

To prepare pilot-scale testing equipment and perform testing in the areas of Fischer-Tropsch (FT) liquid production, catalyst development, catalyst testing, product upgrade, and process simulation. Biomass-derived syngases will be used for the testing. The FT pilot system will be combined with existing Energy & Environmental Research Center gasifiers to provide the capabilities to allow testing of current and newly developed catalysts with syngas from various fuels and at conditions of varied temperature, pressure, and gas composition. The catalyst development and production work will supply catalyst options for varied end use applications, including use in smaller-scale, distributed fuel production systems. The development of FT technologies to produce liquid transportation fuels from biomass, waste and coal will provide a new industry for North Dakota as well as helping to provide energy security not only for the state but for the entire country.

STATUS

10/22/08